



$S = \text{TOTAL WING AREA} = 11896 \text{ CM}^2$
 BOTH WINGS
 $X = \text{LOCATION C.O.G.}$
 $dS1 = \text{WING AREA INNER PANEL IN CM}^2$
 $dS2 = \text{WING AREA OUTER PANEL IN CM}^2$
 $X1 = \text{LOCATION OF AERODYNAMIC CENTRE INNER PANEL}$
 $X2 = \text{LOCATION OF AERODYNAMIC CENTRE OF OUTER PANEL}$

$$X = \frac{(dS1 \times X1) + (dS2 \times X2)}{S \times 0.5}$$

FORMULA AS PER MARTIN SIMONS BOOK FOR MODEL AIRCRAFT AERODYNAMICS 4TH EDITION PAGE 222

$$X = \frac{(2467 \times 21.7) + (3481 \times 60.9)}{11869 \times 0.5} = 44.6 \text{ cm (446 mm)}$$

NOTE FIGURES IN FORMULE ARE IN CM AND CM²

SZD-20X WAMPIR-2
 CALCULATION OF C.O.G LOCATION